

Listing of claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-20. (Canceled)

21. (Previously Presented) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:

- (a) a protein consisting of amino acid residues 1 to 416 of SEQ ID NO:1;
- (b) a protein consisting of amino acid residues 2 to 416 of SEQ ID NO:1;
- (c) a protein consisting of a portion of SEQ ID NO:1, wherein said portion consists of at least 30 contiguous amino acid residues of SEQ ID NO:1; and
- (d) a protein consisting of a portion of SEQ ID NO:1, wherein said portion consists of at least 50 contiguous amino acid residues of SEQ ID NO:1.

22. (Previously Presented) The antibody or fragment thereof of claim 21 that specifically binds protein (a).

23. (Previously Presented) The antibody or fragment thereof of claim 21 that specifically binds protein (b).

24. (Previously Presented) The antibody or fragment thereof of claim 21 that specifically binds protein (c).

25. (Previously Presented) The antibody or fragment thereof of claim 21 that specifically binds protein (d).

26. (Previously Presented) The antibody or fragment thereof of claim 22 that specifically binds protein (b).

27. (Currently Amended) The antibody or fragment thereof of claim 21, wherein the antibody ~~or fragment thereof~~ is a human antibody.

28. (Currently Amended) The antibody or fragment thereof of claim 21 ~~which wherein the is a polyclonal antibody is or a fragment of a polyclonal antibody or a~~ fragment thereof.

29. (Currently Amended) The antibody or fragment thereof of claim 21 ~~which wherein the is a monoclonal antibody is or a fragment of a monoclonal antibody or a~~ fragment thereof.

30. (Previously Presented) The antibody or fragment thereof of claim 21 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a humanized antibody;
- (c) a single chain antibody; and
- (d) an Fab fragment.

31. (Previously Presented) An isolated cell that produces the antibody or fragment thereof of claim 21.

32. (Previously Presented) A hybridoma that produces the antibody of claim 21.

33. (Previously Presented) A method of detecting an ICE-LAP 6 protein in a biological sample comprising:

- (a) contacting the biological sample with the antibody or fragment thereof of claim 21; and
- (b) detecting the ICE-LAP 6 protein in the biological sample.

34. (Previously Presented) The method of claim 33 wherein the antibody or fragment thereof is a polyclonal antibody or a fragment of a polyclonal antibody.

35. (Previously Presented) An isolated antibody or fragment thereof, wherein the antibody has been obtained from an animal that has been immunized with a protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of amino acid residues 1 to 416 of SEQ ID NO:1;

(b) the amino acid sequence of amino acid residues 2 to 416 of SEQ ID NO:1;

(c) an amino acid sequence consisting of at least 30 contiguous amino acid residues of SEQ ID NO:1; and

(d) an amino acid sequence consisting of at least 50 contiguous amino acid residues of SEQ ID NO:1;

wherein said antibody or fragment thereof specifically binds to said amino acid sequence.

36. (Previously Presented) The antibody or fragment thereof of claim 35 obtained from an animal immunized with protein (a).

37. (Previously Presented) The antibody or fragment thereof of claim 35 obtained from an animal immunized with protein (b).

38. (Previously Presented) The antibody or fragment thereof of claim 35 obtained from an animal immunized with protein (c).

39. (Previously Presented) The antibody or fragment thereof of claim 35 obtained from an animal immunized with protein (d).

40. (Currently Amended) The antibody or fragment thereof of claim 35 wherein the ~~which is a monoclonal antibody or a fragment of~~ is a monoclonal antibody or a fragment thereof.

41. (Previously Presented) The antibody or fragment thereof of claim 35 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and

(e) an Fab fragment.

42. (Previously Presented) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:

(a) a protein consisting of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 97590;

(b) a protein consisting of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97590;

(c) a protein consisting of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97590, wherein said portion consists of at least 30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97590; and

(d) a protein consisting of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97590, wherein said portion consists of at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97590.

43. (Previously Presented) The antibody or fragment thereof of claim 42 that specifically binds protein (a).

44. (Previously Presented) The antibody or fragment thereof of claim 42 that specifically binds protein (b).

45. (Previously Presented) The antibody or fragment thereof of claim 42 that specifically binds protein (c).

46. (Previously Presented) The antibody or fragment thereof of claim 42 that specifically binds protein (d).

47. (Previously Presented) The antibody or fragment thereof of claim 43 that specifically binds protein (b).

48. (Currently Amended) The antibody or fragment thereof of claim 42, wherein

the antibody ~~or fragment thereof~~ is a human antibody.

49. (Currently Amended) The antibody or fragment thereof of claim 42 ~~which is a polyclonal wherein the antibody is or a fragment of a polyclonal antibody or a fragment thereof~~.

50. (Currently Amended) The antibody or fragment thereof of claim 42 ~~which is a monoclonal wherein the antibody is or a fragment of a monoclonal antibody or a fragment thereof~~.

51. (Previously Presented) The antibody or fragment thereof of claim 42 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a humanized antibody;
- (c) a single chain antibody; and
- (d) an Fab fragment.

52. (Previously Presented) An isolated cell that produces the antibody or fragment thereof of claim 42.

53. (Previously Presented) A hybridoma that produces the antibody of claim 42.

54. (Currently Amended) A method of detecting ICE-LAP 6 protein in a biological sample comprising:

- (a) contacting the biological sample with the antibody or fragment thereof of claim ~~42~~45; and
- (b) detecting the ICE-LAP 6 protein in the biological sample.

55. (Previously Presented) The method of claim 54 wherein the antibody or fragment thereof is a polyclonal antibody or a fragment of a polyclonal antibody.

56. (Previously Presented) The method of claim 54 wherein the antibody or fragment thereof is a monoclonal antibody or a fragment of a monoclonal antibody.

57. (Previously Presented) An isolated antibody or fragment thereof, wherein the antibody has been obtained from an animal that has been immunized with a protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 97590;

(b) the amino acid sequence of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97590;

(c) an amino acid sequence consisting of at least 30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97590; and

(d) an amino acid sequence consisting of at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97590;

wherein said antibody or fragment thereof specifically binds to said amino acid sequence.

58. (Previously Presented) The antibody or fragment thereof of claim 57 obtained from an animal immunized with protein (a).

59. (Previously Presented) The antibody or fragment thereof of claim 57 obtained from an animal immunized with protein (b).

60. (Previously Presented) The antibody or fragment thereof of claim 57 obtained from an animal immunized with protein (c).

61. (Previously Presented) The antibody or fragment thereof of claim 57 obtained from an animal immunized with protein (d).

62. (Currently Amended) The antibody or fragment thereof of claim 57 ~~which is a monoclonal~~ wherein the antibody is or a fragment of a monoclonal antibody or a fragment thereof.

63. (Previously Presented) The antibody or fragment thereof of claim 57 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) an Fab fragment.

64. (Currently Amended) An isolated antibody or fragment thereof that specifically binds an ICE-LAP 6 protein purified from a cell culture wherein said ICE-LAP 6 protein is encoded by a polynucleotide encoding amino acids 1 to 416 of SEQ ID NO:1 ~~operably associated with a regulatory sequence that controls the expression of said polynucleotide.~~

65. (Currently Amended) The antibody or fragment thereof of claim 64 wherein the ~~which is a monoclonal antibody is or a fragment of a monoclonal antibody or a fragment~~ thereof.

66. (Currently Amended) The antibody or fragment thereof of claim 64, wherein the antibody ~~or fragment thereof is~~ a human antibody.

67. (Previously Presented) The antibody or fragment thereof of claim 64 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) an Fab fragment.

68. (Previously Presented) An isolated antibody or fragment thereof, wherein the antibody has been obtained from an animal that has been immunized with a protein consisting of an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of amino acid residues about 10 to about 20 of SEQ ID NO:1;
- (b) the amino acid sequence of amino acid residues about 40 to about 50 of SEQ ID NO:1;

(c) the amino acid sequence of amino acid residues about 70 to about 90 of SEQ ID NO:1; and

(d) the amino acid sequence of amino acid residues about 100 to about 113 of SEQ ID NO:1;

wherein said antibody or fragment thereof specifically binds to said amino acid sequence.

69. (Previously Presented) The antibody or fragment thereof of claim 68 obtained from an animal immunized with protein (a).

70. (Previously Presented) The antibody or fragment thereof of claim 68 obtained from an animal immunized with protein (b).

71. (Previously Presented) The antibody or fragment thereof of claim 68 obtained from an animal immunized with protein (c).

72. (Previously Presented) The antibody or fragment thereof of claim 68 obtained from an animal immunized with protein (d).

73. (Currently Amended) The antibody or fragment thereof of claim 68 wherein the ~~which is a monoclonal antibody is or a fragment of a monoclonal antibody or a fragment~~ thereof.

74. (Previously Presented) The antibody or fragment thereof of claim 68 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) an Fab fragment.